

Claims

2 1. A suspension device for a wheel carried by a wheel mount, the
3 suspension device comprising at least one hub body which is arranged in the wheel
4 and, together with the wheel, the at least one hub body is mounted so as to be
5 pivotable about a supporting axle provided on the wheel mount, wherein the
6 supporting axle is spaced from the carrying axis of the wheel and wherein at least
7 one spring member is provided which co-operates with the at least one hub body so
8 as to cushion the pivoting movement of the hub body, the wheel mount carries at
9 least one abutment member which is spaced from the supporting axle and on which
10 the at least one hub body is supported or is supportable by means of the at least one
11 spring member.

1 2. The suspension device according to claim 1, wherein the at least one
2 spring member is intended to absorb compressive and axial loads.

1 3. The suspension device according to claim 1 wherein the hub body has a
2 space for receiving the at least one spring member and through which the at least
3 one abutment member is guided.

1 4. A suspension device according to claim 3, wherein the space is formed
2 as a curved slot.

1 5. A suspension device according to claim 1, wherein the hub body is
2 formed by two connectable halves.

1 6. The suspension device according to claim 5, wherein the halves of the
2 hub body are connectable to one another in a snap-locking manner.

1 7. The suspension device according to claim 1, wherein the at least one
2 spring member (19) is formed as an elastomer.

1 8. The suspension device according to of claim 1, wherein the at least one
2 hub body is housed in a bearing.

1 9. The suspension device according to claim 8, wherein the bearing is
2 formed as a wheel.

1 10. A suspension device for a wheel carried by a wheel mount, the
2 suspension device comprising:
3 a hub body arranged in the wheel, the hub body including a bore extending
4 therethrough, the bore being offset from a center of the hub body;
5 a supporting axle provided on the wheel mount and extending through the
6 bore of the hub body so as to support the hub body and wheel, wherein the
7 supporting axle is spaced from a carrying axis of the wheel;
8 an opening extending through the hub body in a direction parallel to a
9 direction of the bore, said opening being spaced from the bore;
10 at least one spring arranged in the opening; and
11 an abutment member mounted on the wheel mount and extending through
12 the opening so as to cooperate with the spring so as to cushion a pivoting movement
13 of the hub body.